

HMA Mix Design Submittal

Contract Info	rmation									
Contract Number		State Route Section							Date	
Project Engineer		Region								
HMA Paving Contr	actor				Sul	omitted By				
HMA Class 3/8 Inch 3.1/2 Inch 1.1		ATB Other (Describe)			•			ESA	Ls (millions)	
Gyration Levels N Initial:	N Des		HMA Evaluation Method Statistical Non Statistical Commercial							
Asphalt Bind	er Inforn	nation								
Primary Asphalt Binder Supplier					Asphalt Binder Specific Gravity (Gb)				Asphalt Binder Grade	
Mixing Temperature Range					Compaction Temperature Range				Anti-Strip Type	
Secondary Asphalt Binder Supplier				Asphalt Binder Specific Gravity (Gb)				A	Asphalt Binder Grade	
Mixing Temperatur	e Range			Compacti	on T	emperature Ranç	ge	F	Anti-Strip Type	
Contractor A	ggregate	Structure a	and Agg	regate	Tes	st Data				
and the percent pa	assing each s he class of H	sieve for each sto IMA used. Repor	ockpile used t all stockp	d in the mix ile gradation	des	ign as well as the the nearest tent	combine h of a pe	ed gra ercent	etc.), "Ratio" (45%, 20%, etc.), adation and the specification . Report the combined enth of a percent.	
Material							Comb Grada		Specification Requirements	
Source										
Ratio										
1 1/2" Square										
1" Square										
3/4" Square										
1/2" Square										
3/8" Square										
U.S. No. 4										
U.S. No. 8										
U.S. No. 16										
U.S. No. 30										
U.S. No. 50										
U.S. No. 100										
11 S No 200										

In the tables belo and the selected aggregate structu	design aggrega	ate structure (C	specific gravit ombined Grad	y and aggregat dation) as requi	e quality propered. The speci	erty test data d ification require	etermined for e ements only ap	each stockpile pply to the design
Aggregate Sp	ecific Gravi	ty, Sand Eq	uivalency,	and Uncon	pacted Voi	id Content	of Fine Agç	gregate
Material						Combined Gradation	Specification Requirements	
Source								
Ratio								
Gsb Coarse								
Gsb Fine								
Gsb Blend								
Sand Equiv.							45 Min., 35	Min. for ATB
Uncompacted Void Content*							45% Minimum	
Coarse Aggre	gate Fractu	re*						
Sieve Sizes						Combined Gradation	# Fractured Faces	Specification Requirements
1" Square								90% Minimum
3/4" Square								90% Minimum
1/2" Square								90% Minimum
3/8" Square								90% Minimum
U.S. No. 4								90% Minimum
* Not applicab	ole to Aspha	ılt Treated E	3ase (ATB))-				
Remarks								

Contractor's Aggregate Test Data

In the table below provide Gmb values must be deter 8.2 of SOP 732, back cal	rmined from replic	cate mixtures comp	pacted to the appro	priate Ndesign gyra	ation level in accord		
	Pri	imary Asphalt B	Binder	Secoi	ndary Asphalt Bi	nder	
HMA Properties	-0.5% Pb Design		+0.5% Pb Design	-0.5% Pb Design	Pb Design	+0.5% Pb Design	
Pb							
% Gmm @ Nini							
% Gmm @ Ndes (Va)							
% VMA @ Ndes							
% VFA @ Ndes							
Dust / Asphalt Ratio							
Pbe							
Gmm							
Gmb							
Gse							
Height @ Nini							
Height @ Ndes							
Contractor's HMA In the table below provide testing performed via WSI data developed from the re	the HMA volume DOT SOP 732. T	tric mix design dat his may be the sa	me as the Pb desig	n data from the tab			
HMA Properties		sphalt Binder		Asphalt Binder	Specification Requirements		
Pb		P					
% Gmm @ Nini							
% Gmm @ Ndes					96.0 (93.0 for ATB)		
% VMA @ Ndes					· · · · · · · · · · · · · · · · · · ·	,	
% VFA @ Ndes							
Dust / Asphalt Ratio *					0.6 - 1.6		
Pbe							
Gmm							
Gmb							
Gse							
% Gmm@ Nmax *					<u>≤</u> 98.0		
•	enhalt Tracts	d Rose (ATP)	<u> </u>		1 ≥ 70.0		
* Not applicable to A	-						
I certify this HMA job-mix fo "Volumetric Design for Hot-	Mix Asphalt (HM						